HINDUSTAN AERONAUTICS LIMITED
AIRCRAFT DIVISION
BANGALORE COMPLEX

TELEPHONE : 080- 22321585
FAX : 080 - 22315188

POST BAG NO. 1788
VIMANAPURA POST
BANGALORE – 560 017
INDIA

REF NO: - A/BA4/1421-5878/R2 **DATE: - 09-07-2015**

Please upload your quotation along with relevant information for the following item in the E-procurement portal of HAL (eproc.hal-india.com):

SL NO	DESCRIPTION	QTY
01	**TIG WELDING MACHINE**	04

Any queries or correspondences other than quotation should be sent to our email-id: alwin@hal-india.com.

You are requested to quote in two bid system (Technical Bid & Price Bid).

Technical bid should contain only the compliance matrix to HAL's technical specification (placed at Annexure-B), scanned image/pdf of Demand Draft for Earnest Money Deposit, catalogues/ brochures of the product, point-wise compliance statement against all tender conditions and any relevant product information other than the pricing. Any additional relevant information to be uploaded separately and should be available during Technical Bid opening. **Technical Bid which includes pricing will summarily be rejected.**

Price/Commercial Bid should include the duly filled price schedule format attached at Annexure –A and other commercial terms and conditions. Any additional information which involves pricing like break-up, pricing for spares etc. may be provided in the additional Worksheet attached at Annexure-A1.

Bid must be submitted online through HAL's "e-Procurement system" at https://eproc.hal-india.com. Bidder shall submit both "*Technical Bid*" and "*Price Bid*" through HAL's e-Procurement Portal only. Bids submitted in any other form, such as courier/ post/ in-person/ fax/ telegram/ telex, shall not be accepted against this Tender.

Bidders are advised, in their own interest, to ensure that their bids are submitted well before the "*Due Date & Time of Bid-Submission*" of the Tender as HAL's "e-Procurement System" at https://eproc.hal-india.com will not allow submission of bids once the closing date and time of the Tender (i.e. Due Date & Time of Bid-Submission) is reached. HAL shall not be responsible if bidder is not able to submit the bid on account of failure in network / internet connection at bidder's end.

Tender Schedule:-

Sl No.	Activity	Date	Time
1	Tender closing (**Last date for submission of bids**)	31-Jul-15	09.55 hrs
2	Tender opening dates		
	a) Technical Opening	31-Jul-15	10.15 hrs
	b) Commercial/ Cost bid opening	Will be intimated later to the technically qualified bidders.	

The Commercial Bids of only those firms, whose technical bids are found to be technically acceptable, will be opened.

Earnest Money Deposit:

a) EMD for a value of Rs. 20000/- (USD 400/-) have to be submitted in the form of Demand Draft / Banker's Cheque in favour of Hindustan Aeronautics Limited, payable at Bangalore, enclosed in a cover **with tender reference and due date super scribed, and should reach the following address or the requisite amount to be Wire Transferred before Tender Closing date, by 14.00 hrs.**

Deputy General Manager [Purchase]
Hindustan Aeronautics Ltd.,
Aircraft Division [Purchase Department]
Bangalore Complex, Bangalore-560017.
PH : 080-22321585

For Wire transfer, please make use of the following bank details:
ACCOUNT NAME: HINDUSTAN AERONAUTICS LIMITED, AIRCRAFT DIVISION
ACCOUNT NO: 10918220602
IFSC CODE : SBIN0001114
BANK NAME : STATE BANK OF INDIA, HAL BRANCH
SWIFT CODE : SBININBB147

b) Bids shall be rejected in the following instances:

i) If the scanned image / PDF of the DD / Banker's Cheque or the wire transfer details for EMD is not available at the e-procurement portal during Technical Bid opening,
ii) the original instrument not received before Technical Bid opening,
iii) Non-receipt of confirmation from HAL's banker regarding wire-transfer of EMD amount.
iv) Offers not accompanied with requisite amount of EMD or EMD not submitted in the specified form.

c) EMD amount should be received in full. Any charges applicable should be borne by the bidder.

EMD needs to be submitted by participating bidder . However, the EMD remittance document, either in Indian currency or any other convertible currency of the specified amount, can be arranged by the Indian subsidiary/branch office in India of a foreign bidder which shall be submitted along with a certificate confirming the relationship of subsidiary/branch office in the bidder's offer.

d) EMD will not carry any interest for the period it is retained with HAL.
Forfeiture of EMD: EMD will be forfeited if a bidder withdraws amends, impairs and / or derogates within validity period. EMD of the successful bidder also shall be forfeited, if the successful bidder fails to honour the contract resulting from the tender.

e) **EXEMPTION:** Bidders exempted from submission of EMD as per Govt. of India directives must submit **certified copy of Govt**. of India authority for such exemption in lieu of EMD. Failure to upload the proof of eligibility for EMD exemption will result in the rejection of bid.

f) EMD of unsuccessful bidder will be returned after order acceptance by the successful bidder. However, in case of successful bidder, the EMD shall be released after the supply of the equipment or may be appropriated for security deposit or Performance Guarantee (as applicable) for the warranty period.

Conditions:-

1. **PRICE:** i) Price quoted should be net FOB / FCA, export packed / FAS Vessel with no extra charge whatsoever. The quoted price should include equipment cost, all standard and other accessories in order to meet the tendered specification. If, for special reasons, bidder prices are Ex-Works or F.O.B. plant, bidder must prepay inland transportation's. Port dues and shipment charges up to F.O.B. vessel at port of shipment and claim this amount of actual along with the price of the goods through bank. Bidder's quotation should indicate clearly the extent of such charges.

ii) Price schedule is attached at Annexure-A. Any break-up, prices of optional accessories and further price details to be indicated at format attached at Annexure-A1. Price Bid will be evaluated based on the information provided in the formats Annexure-A and Annexure-A1 only.

iii) In case Bidder has entered into Rate Contract with DGS&D, the Rate Contract, reference to be sent to HAL along with the quotation. Bidder is required to certify that prices quoted are the same as applicable to DGS&D and other Government Departments. DGS&D Rate Contract holders should state whether they are agreeable for supply at DGS&D Rate Contract Rates in the event of placement of order by us on HAL's own order form.

iv) In case an imported item is quoted by bidder, the prices quoted should be in the currency of the country of supply. HAL reserves the right to avail Custom duty exemption on imported item. To avail the exemption, HAL will provide Custom duty exemption certificate (if applicable) to the Bidder. Bidder shall submit the invoice of foreign supplier prior to release of custom duty exemption certificate by HAL. Bidder is advised to quote both the rates (with custom duty exemption and without custom duty exemption). HAL reserves the right to select any of the option for commercial evaluation and ordering.

2. Any order, resulting from the enquiry, shall be governed by the General Terms and Conditions of Contract of HAL and any party quoting against this enquiry shall be deemed to have read and understood these terms and conditions and to have quoted subject to these terms and conditions.

3. When counter terms and conditions of business have been offered by a bidder, HAL shall not be deemed to be governed by such terms and conditions unless specific written acceptance thereof has been given by HAL.

4. No condition and terms, notice of which has not been given in this enquiry by parties submitting quotations, will be considered by HAL, if put forward in subsequent correspondence, after acceptance of the orders etc.

5. **Validity of bid:** Price quoted should be net and unless otherwise specified should remain valid for our acceptance for a minimum of 180 days from the closing date of enquiry and the material offered should be kept under provisional reservation for this quotation.

6**. Taxes:** a) Applicability of the taxes (Sales Tax, Excise Duties, Octroi etc) should be explicitly indicated by the bidder in his response either in percentage or in absolute terms. In the absence of this input the offer would be considered all inclusive.

b) Excise Duty: Excise Duty will be paid only on production of sufficient documentary evidence or a certificate from the Supplier for having paid the Excise Duty at actual. The present rate and tariff details should be indicated.

c) In respect of Foreign bidders, bidders has to bear all taxes, duties and levies payable in their country and HAL will bear all statutory levies, other than withholding tax and service tax, payable in India.

Withholding Tax

i) HAL would be deducting at source applicable Income Tax as per Government of India Rules applicable at the time of making payments in respect of services rendered in India. (Generally on the amounts towards services like training, technical assistance offered by the bidder and license fees). As per the Rules, Income tax has to be borne by the recipient of the Income and relevant certificate to this effect will be issued to the bidder on deduction of such amounts, if applicable.

ii) Bidder should bear the applicable withholding income tax in India. Tax would be deducted at source by HAL as per DTAA where the bidder could claim the benefit of double taxation in their country as per the bilateral agreement between the two countries. Certificate to this effect would be issued by HAL to enable the bidder to claim the benefit under DTAA.

iii) Bidder is required to indicate the PAN No. issued by Indian Income Tax Authorities.

7. DELIVERY: All supplies should be effected within 4 – 6 weeks from the date of our confirmed P.O. However, we request you to quote earliest possible delivery.

i) Please confirm whether the item/equipment quoted/ offered is of the shelf or to be manufactured specific-to-type. If the items/equipment is manufactured specific-to-type, bidder to quote firm delivery schedule taking into consideration of the period actually required based on the complexity of the equipment.

In the event of an order, HAL reserve the right to claim towards liquidated damages on the undelivered part of the order. This clause will be strictly followed by HAL. Therefore your delivery schedule should be firm and definite.

ii) In case of Foreign Bidder, please indicate status of export permit based on the present rules/regulations of your country and normal time frame for obtaining such export permission if an order is placed on you in near future and the same should be covered within the delivery schedule indicated.

iii) If installation and commissioning of the equipment is applicable and to be done by supplier at HAL site, bidder to indicate the period required for the above job from the date of intimation of readiness of site at our premises.

iv) Bidder to note that the delivery schedule should be for:

a) Period required for the delivery/dispatch of equipment including pre-dispatch inspection if called for and

b) Period required for installation and commissioning of the subject equipment after intimation from HAL about readiness of the site.

8. **PAYMENT TERMS: -** 80% of the order value will be released within 30 days from the date of supply of the item at HAL, Aircraft Division, Bangalore. Balance 20% of the order value will be released within 30 days after successful installation and on receipt of Performance Bank Guarantee valid for the warranty period plus one month.

All the payments shall be released through RTGS / CORE / NEFT.

9. All statutory levies as applicable in India at the time of supply will be borne by HAL.

10. **Repeat Purchase:** HAL, if desired, shall place repeat orders for all the items of the tender whose tendered quantity is more than 01 number with in the period of 01 year from the date of supply at the same terms and conditions of the Purchase Order resulting from this Tender.

11. **INSTALLATION, COMMISSIONING AND PROVE-OUT :** Supplier has to install and commission the systems at HAL.

12. SAFETY CODE TO WORKMEN DURING INSTALLATION / COMMISSIONING:- You are requested to ensure all safety precaution of your personnel while installation / commissioning of equipment to prevent any accident. In case of any accident, HAL shall not be responsible for loss caused to your personnel and property. Also the contractor shall at his own expense cover up and protect from any cause for the protection of the work & materials belongs to HAL. Any damage caused must be made good by the contractor at his own expense.

13. HAL is not bound to accept the lowest or any quotations and reserves the right of accepting the whole or any part of the quotation or part of the quantity offered and you must supply the same at the rate quoted.

14. **Liquidated Damages**: In the event of an order, we reserve the right to collect a sum of 0.5% per week of delay or part thereof, subject to a maximum of 10% as our claim towards liquidated damages on the undelivered part of the order.

15. WARRANTY: Item should be warranted for minimum 12 months from the date of commissioning against all design, material or manufacturing defects. During warranty minimum uptime of 95% shall be ensured failing which warranty period shall deem to be proportionately extended.

16. **Performance Bank Guarantee:** Performance Bank Guarantee should be given for 10% of the order value from a nationalized / reputed bank and valid for the period of warranty plus 01 month.
In case vendor does not agree for Performance Bank Guarantee / retention of equivalent amount, the offer would be summarily rejected.

17. **Tender Evaluation:**

a) The tender will be evaluated on the complete scope of supply as per Technical Specification, item wise.

b) If the bid is in foreign currency, foreign currency exchange rate as on date of bid opening shall be considered for comparative price statement in Commercial evaluation. Bid with lowest price conforming to the specification will be considered for placement of order.

c) In addition to price, the most advantageous bid will be ascertained on the basis of :

i) terms of Delivery ii) Payment terms iii) compliance to commercial terms and conditions.

The evaluation will be based on landed cost at the Division by including freight charges, applicable taxes, and duties to the base price quoted by the vendors.

d) If two or more bidders quote the same price, HAL reserves the right to seek revised offer from the same bidders and placing order on revised L-1 offer. If same situation prevails then HAL reserve the right to place order on any of them.

e) Conditional discounts will not be considered in evaluation of tender.

f) In case of bidders not agreeing for LD clause, the maximum LD amount / to the extent not agreed LD value, will be loaded in the Comparative Statement, to determine the successful bidder.

18. Vendors should ensure the availability of spares and service for the offered product through out the useful life of the machine.

19. Please indicate in your tender, whether stores newly manufactured are offered. Where newly manufactured stores are offered and on inspection it is found that reconditioned stores or parts have been used, such stores will be rejected at the contractor's risk and expense.

20. FALL CLAUSE: The price quoted should be in no event exceed the lowest price at which you sell the stores or offer to sell stores of identical description to any persons/organization including the purchases by any department of the Govt. of India, the State Govt. or any statutory undertaking of the Govt. of India /State Govt. as the case may be during the period till the completion of the performance of the order placed and during currency of the order.
If at any time during the said period, the contractor reduces the sales price, sells or offers to sell such stores to any person/organization including the purchaser or any department of Central Govt. or any Dept. of State Govt., or any statutory undertaking of the Central or State Govt., as the case may be at a price lower than the price chargeable under the contract, he shall forthwith notify such reduction/sale or offer to sale to the Hindustan Aeronautics Limited and the price payable under the contract for the stores supplied after the date of coming into force of such reduction or sale or offer to sale shall stand correspondingly reduced.

21. IMMUNITY TO GOVERNMENT OF INDIA: It is understood and agreed that the government of India is not a party to this agreement and has no liabilities, obligations or rights hereunder. It is expressly understood and agreed that HAL is an independent legal entity with power and authority to enter into contracts solely on its own behalf under the applicable laws of India and General Principles Contract Law. The vendor shall agree , acknowledge and understand that HAL is not an agent , representative or delegate of the government of India .It is further understood and agreed that the government of India is not and shall not be liable for any acts , omissions , commissions breaches or other wrongs arising out of the contract. Accordingly, vendor expressly waives releases and foregoes any and all actions or claims against the Government Of India arising out of this contract, not to sue the government of India as to any manner, claim, cause of action or any thing whatsoever arising out of or under this agreement.

22. ARBITRATION: All disputes or differences whatsoever arising between the parties out of or relating to the construction meaning and operating or effect of this contract or the breach thereof shall be settled by arbitration in accordance with the rules of arbitration of the Indian Council of Arbitration and the award made in pursuance thereof shall be binding on the parties.

23. JURISDICTION: The court at Bangalore only shall have jurisdiction to deal with and decide any legal matter whatsoever arising out of the contract in the event of placement of the order.

24. Agents / Agency Commission: The seller confirms and declares to the buyer that the seller is the original manufacturer or authorized distributor / stockiest of original manufacturer or Govt. Sponsored / Designated Export Agencies (applicable in case of countries where domestic laws do not permit direct export by OEMS) of the stores referred to in this offer / contract / Purchase order and has not engaged any individual or firm, whether Indian or Foreign whatsoever, to intercede, facilitate or in any way to recommend to Buyer or any of its functionaries, whether officially or unofficially, to the award of the contract / purchase order to the Seller; nor has any amount been paid, promised or intended to be paid to any such individual or firm in respect of any such intercession, facilitation or recommendation. The Seller agrees that if it is established at any time to the satisfaction of the Buyer that the present declaration is in any way incorrect or if at a later stage it is discovered by the Buyer that the Seller has engaged any such individual / firm, and paid or intended to pay any amount, gift, reward, fees, commission or consideration to such person, party, firm or institution, whether before or after the signing of this contract / purchase order, the Seller will be liable to refund that amount to the Buyer. The Seller will also be debarred from participating in any RFQ / Tender for new projects / program with Buyer for a minimum period of five years. The Buyer will also have a right to consider cancellation of the Contract / Purchase order either wholly or in part, without any entitlement or compensation to the Seller who shall in such event be liable to refund all payments made by the Buyer in terms of the Contract / Purchase order along with interest at the rate of 2% per annum above LIBOR (London Inter Bank Offer Rate) (for foreign vendors) and Base Rate of SBI (State Bank of India) plus 2% (for Indian vendors). The Buyer will also have the right to recover any such amount from any contracts / Purchase order concluded earlier with Buyer.

25. TERMINATION OF CONTRACT: a) In the event of unsatisfactory performance by the vendor during the contract period, or any of the information provided by the supplier is found to be untrue, or supplier is found to have attempted to influence any person involved with the contract through unethical means, the contract shall be terminated with 3 month's advance notice without any financial implication to HAL. Notwithstanding the foregoing, in cases where it is found that a supplier is engaged in unethical practices, the same shall be barred from participating in the future contracts for a period indicated in the purchase manual.
b) If there is change in the customer requirement, contract shall be terminated with one month's advance notice. The liability of HAL in this case will be agreed mutually.
c) The supplier is declared bankrupt or becomes insolvent.
d) The delivery of material is delayed due to causes of Force Majeure by more than 3 months
e) Based on the decision of the arbitration Tribunal.

26. INFLUENCING THE TENDER: After the bids are opened, Bidder shall not provide any information or send any correspondence, unless asked by HAL in writing. Providing unsolicited information, after the bids are opened, will be construed as disrupting the tender procedure and also may result in rejection of the bid.

Special Notes:

1. The quotation should be comprehensive against specification. Deviations if any, should be clearly highlighted with necessary clarification.
2. Where numerical values are required to be quoted, the comments like “YES, AGREED, WILL BE GIVEN AT THE TIME OF SUPPLY, CONFIRMED, WILL BE CONFIRMED” are not acceptable.
3. Catalogues / Datasheets should be provided for the offered equipment and all the claims in the Technical Specification compliance sheet placed at Annexure-B should be supported by documentary proofs.
4. **Deviations, if any, against the terms and conditions of RFQ to be clearly highlighted else it will be construed as the bidder is complying to all of the RFQ's terms and conditions.**

****

TECHNICAL SPECIFICATION

Sl no.	Description		Essential / Desirable
1	**Purpose**	Used for Welding of Sheet, Tubes, Rods of different material like Aluminium, Steel & Stainless Steel. This machine is intended for use in Aircraft manufacturing industry for precision welding application.	For Info
2	**Scope**	Supply, Installation, Training and Commissioning of TIG Welding machine.	Essential
3	**Type Of Machine**	AC/DC manual heavy duty TIG Welding Machine, inverter based, Frequency ignition and incorporated pulse, sloop and idling low & high current function.	Essential
4	**Capacity**	1. Welding Amperage range : 5 – 350 Amps or better. 2. Rated Output (Three Phase) : 250 Amps at 30V - 100% duty cycle and 300 Amps at 32V - 60% duty cycle or better. 3. Maximum open circuit voltage : 70 Volts (DC) or better 4.Power requirement: To be specified by Vendor 5. Minimum thickness of welding : Aluminium – 0.5mm, Steel – 0.5mm, Stainless Steel – 0.5 mm or better 6. Maximum thickness of welding : Aluminium – 15 mm, Steel – 6 mm Stainless Steel – 6 mm or better.	Essential
5	**Type Of Materials**	Aluminium Alloys, Low Carbon Steels & Corrosion resistance Steel(SS)	Essential
6	**AC TIG features**		
a	Independent Amplitude / Amperage control: Should allow the EP and EN amperages to be set independently to precisely control heat input to the work and electrode.		Desirable
b	Extended Balance (30% – 70%): should control the amount of oxide cleaning (amperage time in EN) that is essential for high quality welds on aluminum.		Desirable
c	AC Frequency (50-200Hz) or better : controls the width of the arc cone and the force of the arc (directional control)		Essential
d	**AC waveforms:**		
	i	Should include Advance Squarewave, Soft Squarewave, Sine Wave for the ultimate in control.	Essential
	ii	Triangular Wave for the ultimate in control.	Desirable

7	**DC TIG features**	1.) Should produce Exceptionally smooth and precise arc for exotic materials. 2.) Should produce high speed DC TIG pulse controls upto 1000 pps or better.	Essential
8	**Common features**	1.) Should protect internal electrical components from airborne contaminants, extending product life. 2.) Should have an auxiliary power receptacle for cooling system. 3.) Should have program memory features, that can store atleast 9 independent program memories that maintain / save the required parameters. 4.) Should have programmable start parameters which allows independent starting conditions based on process and memory selections (amperage, time and polarity). 5.) Should have HF arc starting, which facilitates non-contact arc starting and eliminates tungsten or material contamination. 6.) Should have Auto-post/pre flow, which calculates the length of post/pre flow time based on the amperage setting. These parameters should be changed manually if required. 7.) Should have a power source with cable of 7feet or more. 8.) Machine and the cooling unit should be mounted on the trolley with castor wheels having locking mechanism. 9.) Remote Foot control on / off with both variable setting of amperage and constant amperage. (Desirable) 10.) Should be supplied along with a gas pressure regulator (Details refer Annexure-I) and flow-meter.	Essential
		11.) Should have 15 feet or more earthing cable with clamp. 12.) Should have a remote control board / panel. 13.) Should have a polarity switch. 14.) Should have a AC to DC selector switch.	Essential
		15.) Should have digital Voltmeter and Ammeter, the output should be controlled by a simple rotating / push button and should be display in the checking meters with an accuracy of ±1 unit. 16.)Should be supplied along with two Air cooled TIG welding torches (both Standard & Pencil torch type) of 125 amps of length 7 metres or more. It should be equivalent to WP-9 & WP-9P welding torch of Weldcraft make. 17.) Should be supplied along with two Water cooled TIG welding torches (both Standard & Pencil torch type) of Min 300 amps. It should be equivalent to WP-18 & WP-18P welding torch of Weldcraft make. (Details refer Annexure-III). 18.) Should be mounted on a trolley with wheels which should accommodate both the welding machine and the cooling unit.	Essential

9	**Safety Standards**	The equipment should confirm to the following European Standards: 1.) IEC / EN 60974 - 1 - PART 1 : WELDING POWER SOURCES 2.) IEC / EN 60974 - 2 - PART 2 : LIQUID COOLING SYSTEMS 3.) IEC / EN 60974 - 3 - PART 2 : ARC STRIKING AND STABILIZING. Note : Vendor has to provide Test Certificate for the same.	Essential
10	**Annexure – I**		
	The detailed specification of the pressure regulator is as follows :		
	1.) Double stage, double gauge (0-250kg/cm2 and 0-14 kg/cm2) Brass regulator 2.) Max outlet pressure : 16 kg/cm2 3.) Inlet pressure : 0-250kg/cm2 4.) Medium : Argon. 5.) The design of the pressure regulator should be in accordance to ISO 5175, EN730 international standards. 6.) Should have outlet pressure relief valve for safety. 7.) Should have internal limit lock to prevent over pressurizing of the regulator.		Essential
	8.) S.S. Sintered central micro filter to avoid the contamination of the valve seat. 9.) Should have soft valve seat for leak tightness and increased life. 10.) Thick NBR diaphragm supported by large backup plate. 11.) High operator safety with a pressure relief valve. 12.) Strong, Durable forged brass body & housing cap with fire retardant valve seat material. 13.) Accurate control and minimum pressure fluctuation. 14.) High flow rates even at low cylinder pressures. 15.) Sintered inlet filter which prevents dust and contaminants from entering the regulator. 16.) The pressure gauge should be Ø50mm with end fitting thread ¼" BSP. 17.) The end connector nut of the regulator at the cylinder end should be of thread 7/16" BSP. 18.) The pressure gauges should have dual scales i.e. PSI and Bar or Kg/CM2. 19.) No. of flow meters required are two, one for the welding torch and the other for purging with the flow rates 0-30litres/min. 20.) Should be safe upto 300bar pressure. 21.) Should reduce gas velocity to prevent heat spots.		Desirable
11	**Annexure – II**	The Water cooling system spectification is as follows : 1. Motor input voltage : To be specified by Vendor 2. Motor input amps at full load :To be specified by Vendor 3. Maximum cooling capacity : 3 lt/min or better 4. Tank Capacity & Pump Pressure : To be specified by Vendor	Desirable

12	**Annexure – III**	The TIG welding torch details are as mentioned below : 1.) A round handle with touch and leave lever to operate on/off switch mounted on the handle. This handle should be free to move smoothly 360° to facilitate welding in intri cate structures. 2) It should have a long back cap. 3) It should have a collet for ø1.6mm electrode, 4) It should have a gas lens for ø1.6mm electrode. 5) Threaded type Ceramic nozzle of ID 8.0mm.	Essential
		6) It should be water cooled. 7) The hose should be of length 7m or more. 8) It should have slim design for excellent torch handling. 9) It should be equivalent to WP-18 & WP-18P welding torch of Weldcraft make. 10) The welding cables should be covered with a suitable heat resistant cover. 11) Water cooling hose should be made of neoprene rubber in black colour and should have good heat resisting capacity for long life.	Essential
		12) The following set of spares to be supplied with each welding torch : (a) Back Cap Small - 2 Nos (b) Back cap Medium - 2 Nos (c)Back cap Long - 2 Nos (d) Threaded type Gas lens Ceramic nozzle with ID ø6.0mm - 5 Nos (e)Threaded type Gas lens Ceramic nozzle, ID 8mm - 5 Nos (f) Collet, ø1.6mm - 10 Nos (g) Collet, ø2.0mm - 10 Nos (h) Gas Lens, ø1.6mm - 5 Nos (i)Gas Lens, ø2.0mm - 5 Nos (j) Collet Body, ø1.6mm - 5 Nos (k) Collet Body, ø2.0mm - 5 Nos (l) Threaded type Ceramic nozzle (normal), ø1.6mm - 5 Nos (m) Threaded type Ceramic nozzle (normal), ø2.0mm - 5 Nos	Essential
13	**Training**	Training should be imparted to the welders about various electronic controls and operating systems of the welding machine. Training to be provided to 2 operators and 2 maintenance personnel in the following areas: 1. Operators Training: Machine description and Principle of operations, Machine start up, Operation in various modes, Machine Limitations, Control system diagnosis etc. 2. Maintenance Training : Mechanical System, Cooling System, Electrical system and Troubleshooting.	Essential
14A	**Warranty**	Machine should be warranted for min 12 months from the date of installation / commissioning against all the design, material or manufacturing defects. All accessories should be warranted for min 06 months from the date of installation and commissioning.	Essential

14B	**AMC**	Vendor should quote for Annual Maintenace Contract for a period of 4 years after the warranty Period. Vendor should quote for AMC with spares & AMC without spares separately. The Conditions for the annual maintenance contract will be as follows: . Please Indicate AMC schedule for the machine which will be operational for 400 hrs per month on 2 Shift basis. . BreakDown calls should be attended within 24 hours from the breakdown reporting time. . Preventive Maintenance shall be carried out every 3 months. . Repair services shall be subjected to acceptance by maintenance department of HAL. . Uptime of the machine on monthly basis to be maintained to 95%. . Non Recommended spares shall be supplied by the manufacturer during 4 years of AMC beyond warranty period.	Desirable
15	**Experience & track record**	Vendor should give the list of aerospace and reputed customers to whom the machines of similar capacity have been supplied.	Essential
16	**Documentation and Manuals**	Two sets of the following documents in English are to be supplied with the machine: 1. Operator manual, Spare parts list, Maintenance manual 2. Preventive maintenance check list, trouble shooting charts and guidelines. 3. Equipment assembly drawings. 4. Documents of all the bought out items.	Essential
17	**Installation and Commissioning**	* To be done by the vendor at HAL site * Commissioning of the equipment should be done by the supplier.	Essential
18	**Spares**	* Vendor should quote separately for spares for 2 years of trouble free operation of machine. * Vendor should support for supply of spare parts throughout useful life of the machine. * Spares required for the machine should be maintained by the distributors in India and should be able to supply in IRS or Foreign currency as preferred by us.	Desirable
19	**Sources**	**The equipment shall be of the following makes only:** 1) Miller 2) Fronius 3) Kempi & Lincoln 4) EWM 5) REHM	Essential
20	**General**	* The supplier should quote a commercially proven model of the machine nad control system. * The supplier should quote in two bids ie technical Bid & Commercial Bid. * **Comments like "YES,AGREES, WILL BE GIVEN AT THE TIME OF SUPPLY,CONFIRMED,WILL BE COMPLIED" are not acceptable where numerical values are required to be quoted.**	Essential

		* The supplier should provide catalogue /Detailed Drawings of the machine and the items offered. Sketches are not acceptable. Quotations received without these details are likely to be ignored/disqualified for consideration. * The offer will be ignored /Disqualified in case the supplier is designing and manufacturing the machine first time. * The items to be supplied with the machine should be of standard manufacturer make, necessary drawings /catalogues should be enclosed giving the details. Non standard items/outdated technology is not acceptable. The supplier should clearly categorise the Basic /Standard features of the machine and control system in order to have a clear cost comparison.	
21	**Items to be ordered**	1. AC/DC TIG Welding machine	Essential
		2. Gas Pressure regulator & Flowmeter	Essential
		3. Water cooling system	Essential
		4. Air cooling torch kit (both Standard & Pencil type torch) Length 7 meter or more	Essential
		5. Water cooling torch kit (both Standard & Pencil type torch) Length 7 metre or more	Essential
		6. Remote foot switch	Essential
		7. Spares for each torch kit.	Essential

Instructions for submission of Bids at HAL's e-procurement portal

1. The Tender (bids) should be submitted through e-Procurement Portal of Hindustan Aeronautics Limited (https://eproc.hal-india.com or link to e-Procurement portal through www.hal-india.com). Contractors need to get registered with HAL e-Procurement portal to submit their bids online. Bidders should have Class III Digital Signature Certificate (DSC) and should also register with HAL's e-procurement Portal, for submission of Bids.

2. Class III Digital Signature Certificate (DSC) with organization name is a mandatory requirement for suppliers to participate in e-Procurement activities. Class III DSC may be obtained from any of the Certifying Authority(CA's) (Visit- http://cca.gov.in for further details):

Suppliers/ Contractors have to obtain Class III DSC from any of the CA's and then register in the HAL e-Procurement portal for participation in e-tender.
For e-Tender related queries & difficulty in document uploading, you may contact at the following e-mail id /Phone Nos.
ephelpdesk@hal-india.com / Ph. Nos. - +91 80 40482133, 22323697/98
Alternatively, you may also contact: Manager (Purchase) Tel: +91-80- 22321585.
e-mail: alwin@hal-india.com

3. Bidders are also requested to go through instructions/ user manual hosted in HAL e-procurement portal for submission of bids.

4. The bids should be submitted in TWO BID System [Techno-Commercial (Un-priced) bid and Price Bid] as per the instructions given at RFQ document.
(Note: Each document size (attachment size of document) for uploading in e-procurement portal is restricted to 5MB. If the size of the document is more than 5 MB, you are requested to Zip /split the file and submit as applicable.)

5.Offer submitted through e-procurement portal will only be considered.

6. Submission of Tender Document Fee & EMD (Earnest Money Deposit), if applicable: Strictly as per the instructions given in RFQ document.

7. The tender (bids) should be submitted online at website https://eproc.hal-india.com only on or before the due date and time specified in the tender. The server date and time as appearing on the HAL e-Procurement portal (https://eproc.hal-india.com) will only be considered for the cut-off date and time for receipt of tenders.

8. HAL will not be responsible for the cost incurred in preparation & submission of bids including the cost towards obtaining digital certificate.

9. Bidders shall be required to arrange all resources including Digital Signature Certificate (DSC) and Internet connections at their own cost for participating in online tenders at https://eproc.hal-india.com. HAL shall not be responsible for any delays whatsoever in receiving as well submitting offer (online), including connectivity issues.

****